

CLAIMS

We claim:

1. An anti-infection device comprising a tubular protective membrane in surrounding relation about an endoexo implant, wherein the membrane is constructed such that it can move
5 relative the endoexo implant in an outward direction from a sterile region inside a living body to a unsterile region outside the body, whereby outward movement of a wall of the membrane from the inside region to the outside region is generated at a point of passage of the device through a skin of the body, which movement of the wall prevents penetration of microbes in an opposite inwardly direction.
- 10 2. The device according to claim 1, wherein the membrane is connected hermetically tightly to a portion of the endoexo implant, wherein at least one portion of the membrane is compacted, wherein the at least one portion of the membrane is operative to be at least one of unrolled and unfolded.
- 15 3. The device according to claim 1, further comprising a drawing device in operative connection with the membrane, wherein the drawing device is operative to draw out the membrane.

4. The device according to claim 3, wherein the drawing device is operative to automatically at least one of continuously and periodically draw out the membrane.

5. The device according to claim 1, wherein the membrane is adapted to facilitate growth thereon of endogenous cells of the body.

5 6. The device according to claim 1, wherein the membrane includes a biologically active portion.

7. An anti-infection device comprising:

an endoexo implant adapted for mounting to an interior portion of a living body; and

10 a flexible tubular protective membrane in surrounding relation about the endoexo implant, wherein the membrane includes a first end and a second end, wherein the first end of the membrane is connected hermetically tightly to a portion of the endoexo implant, wherein at least one portion of the membrane is compacted between the first end and the second end, wherein when the device is mounted to an interior portion of a living
15 body with the at least one portion of the membrane positioned within the body and the second end of the membrane positioned outside the body, the at least one portion of the membrane is operative to elongate and move with respect to the endoexo implant in a direction that extends outwardly of the body.

8. The device according to claim 7, further comprising a drawing device in operative connection with the second end of the membrane, wherein the drawing device is operative to urge the at least one portion of the membrane to elongate and move with respect to the endoexo implant in the outwardly direction.
- 5 9. The device according to claim 8, wherein the drawing device is operative to periodically urge the at least one portion of the membrane to move with respect to the endoexo implant.
10. The device according to claim 7, wherein the at least one portion of the membrane is at least one of folded or rolled.
- 10 11. The device according to claim 7, wherein the membrane includes a surface with an antibiotic thereon.
12. The device according to claim 7, wherein the endoexo implant includes a bone screw.
13. The device according to claim 7, wherein the endoexo implant includes a hollow line which is operative to permit fluids to pass therethrough.
14. The device according to claim 7, further comprising an anchor in operative connection
15 with the endoexo implant, wherein the anchor includes a plurality of wings which extend radially outwardly from the endoexo implant.

15. A method comprising:

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- a) mounting an endoexo implant to an interior portion of a living body, wherein a tubular protective membrane is in operative surrounding connection about a portion of the endoexo implant, wherein at least one portion of the membrane positioned within the interior of the body is in a compacted state; and
 - b) urging the least one portion of the membrane to move with respect to the endoexo implant in a direction outwardly of the body, wherein the at least one portion of the membrane elongates.

10 16. The method according to claim 15, wherein in (a) the endoexo implant is mounted to a bone of the body.

17. The method according to claim 16, wherein in (a) the endoexo implant includes a bone screw.

18. The method according to claim 15, wherein (b) includes moving the second end of the membrane with a drawing device positioned outside the body.

15 19. The method according to claim 18, wherein in (b) the drawing device periodically urges the at least one portion of the membrane to move in the outwardly direction.

20. The method according to claim 15, wherein in (a) the compacted state includes the at least one portion of the membrane being at least one of folded and rolled up, wherein (b) includes at least one of unfolding and unrolling the at least one portion of the membrane.

21. The method according to claim 15, wherein (b) includes moving the at least one portion
5 of the membrane from inside the body to outside the body.

22. The method according to claim 15 wherein in (a) the membrane includes a surface with an antibiotic thereon.

23. The method according to claim 15, wherein in (a) the endoexo implant includes a hollow line; and further comprising:

10 (c) moving a dialysis liquid through the line.

24. The method according to claim 15, wherein in (a) an anchor is in operative connection with the endoexo implant, wherein the anchor includes a plurality of wings which extend radially outwardly from the endoexo implant.

15 25. The method according to claim 15, wherein in (a) the membrane is connected hermetically tightly to a portion of the endoexo implant located inside the body.